

THE EVENING WORLD'S RADIO PHONE SERVICE COLUMN.

By Capt. Robt. Scofield Wood,
(D. F. C. M. C. Croix de Guerre with
four palms; formerly Commander 167th
Squadron, Royal Air Force.)

ALTERNATING CURRENT FOR FILAMENT AND PLATE.

In a preceding article we discussed
the use of direct current (D. C.) for
filament and plate operation. To-day
we will consider one of the ways of
using alternating current (A. C.) for
the same purposes.

The method to be described has
proved very satisfactory to the experi-
menters, who have the necessary theo-
retical and practical knowledge of the
operation of the circuits, but it is more
likely to give the layman considerable
difficulty in securing such adjust-
ments as will give him satisfactory
results. For the benefit of those who
are just cutting their "radio eye teeth"
we sincerely suggest sticking to the
six-volt storage battery. Despite the

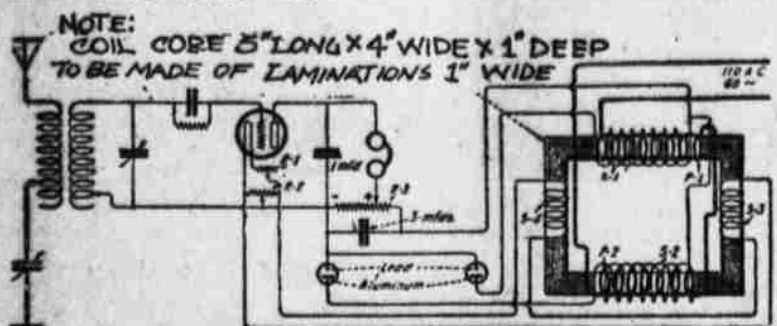
which is on top of the primary winding.

This secondary coil consists of 160
turns of No. 22 D. C. wire.
S—Second half of the plate secondary
also 160 turns wound upon the second
half of the primary and insulated from
it.

S—One-half of the filament lighting
secondary, consisting of 12 turns of No.
18 double cotton covered wire wound
upon the core with two or three layers
of shallock paper between the core
and this winding.

S—The second half of the filament
lighting secondary wound upon the core
and insulated from it in the same man-
ner as the first half.
Great care must be taken in winding
the coils of the transformer in the same
direction, so that if any two halves of
one winding were removed from the core
and placed end to end the winding
would be continuous and not double
back upon itself. If it appears to re-
verse its direction of winding, the two
coils will back each other and no volt-
age will be obtained from that particu-
lar winding.

It might be advisable in order to con-



FEATURES OF THE HOOK-UP FOR USING 110 VOLT A. C. ON PLATE AND FILAMENT.

Inconveniences of the storage battery,
it has the advantage of being absolutely
safe, and the possibility of burning out
the vacuum tubes and starting a
fire are very remote. The application
of house lighting current has many
drawbacks aside from the fire hazard,
which would prove fatal to the desires
and ambitions of the embryo fan. A
thrilling experimenter is often tried to
the point of distraction in overcoming
the natural hum of alternating current
and turning out numerous other things
in the line of unforeseen disturbances.
However, for those who are prepared to
cope with 110-volt A. C., the following
is published:

By experiment the amateur will
grasp the idea as to the correct ad-
justments and will be surprised by the
fine results obtained. The careful
study of the accompanying diagram in
connection with the following key and
explanation will be found to give suf-
ficient detail to construct and operate
this circuit.

KEY TO DIAGRAM.

R—Filament lighting resistance 4 to
8 ohms, one and one-half amperes
carrying capacity.
P—Potentialmeter 200 to 400 ohms.
The adjustment of this centre contact
will eliminate the line hum from the
60-cycle current.

P—Potentialmeter of 4,000 ohms. The
correct adjustment of this instrument
will supply the detector tube with the
proper plate current. This adjustment
is quite critical, but once the proper
setting has been located the results ob-
tained will be found to warrant the
time necessary to make the adjustment.
P—One-half of the primary winding,
220 turns, number 22 D. C. C. wound
upon the long leg of the core. There
is a layer of shallock paper between
this winding and the core and also on
the outside of this winding, to come
between the primary and secondary
winding when the latter is wound on
top of the primary.

P—Second half of the primary wind-
ing, also 220 turns wound upon the core
and insulated from it in the same man-
ner as the first half of the winding.

P—One-half of the plate potential
winding wound upon the insulation,

struct a transformer that will have es-
pecially long life to insulate the wind-
ings one from the other and from the
core by means of empire cloth, which
is a special type of insulation used in
power transformers.

Strips of lead and aluminum will
probably be found to give better results
than any other combination in the
rectifier.

To obtain the best results in the con-
struction of the core after the wind-
ing has been cut out and given one
coat of shallock it should be allowed
to dry and then be given a second coat.
In constructing the transformer it will
be found that the simplest method is to
wind the coils upon a cardboard tube
having the same shape as the core and
then slip the coil on the core after it
has been wound and bound to prevent it
from coming apart. Before starting the
winding of the coils lay several threads
along the winding form parallel to its
axis and spaced equally, four threads
will be sufficient. Have each thread
about four times as long as the coil is
to be. Shellac each thread to the coil
form at the ends in order to keep them
out of the way while the winding is in
progress. Now wind the coil on the
form and after it is completed the ends
of the threads can be fastened from
the form and tied around the coil be-
fore it is slid on to the core, thus pre-
venting it from coming apart.

It is to be expected that a great many
different results will be obtained by
various experimenters from the use of
this device as there are a variety of
considerations that enter into its use
which can not be changed by the con-
structor. One of these factors is the
exact condition of the A. C. line upon
which it is used, that is, the power
factor of the line. The experimenter
will have no means of knowing what
the latter is and even if he did, there
would be a host of varying it, so
the circuit as some experimentation
to obtain the best results.

The transformer core is 4 inches by
1 inch by 1 inch, made up of laminations
of silicon steel, covered with a
single coat of shallock.

The electrolytic rectifiers are 100
watt centimeter jars filled with a

saturated solution of borax in which
strips of lead and aluminum are sus-
pended.

Old Naval Tubes for Amateurs.

The Navy will open sealed bids on
30,000 surplus vacuum transmitting tubes
which are to be sold in wholesale
lots of 10,000 at the Washington Navy
Yard on Monday, May 15. These tubes
were originally designed for transmiss-
ing and receiving in the ordinary com-
mercial transmitting socket. However, they
may be used for detecting and amplifying
by retooling the receiving tube
socket about 45 degrees from the usual
slot. This is essential because the re-
taining pin in the base of them is about
45 degrees from the position of the re-
taining pin of present day receiving
tubes.

These tubes will be sold in the retail
market in their original cartons marked
for amateurs for experimental use only.
This limiting clause need not bother any
of the folks who buy them for enter-
tainment purposes, because experi-
mental use embrace this phase of
operation.

The fact that these tubes are sev-
eral years old must be kept in mind
on the label. To curb the exploiting
of these tubes by unscrupulous sales
organizations a failure to comply with
the Naval regulations in the sales con-
tract will result in the seizure of the
tubes by the authorities and the for-
feiture of all payments already made.

NEW BROADCASTING LICENSES.

Twenty-three new broadcasting sta-
tions have been licensed this week by
the Department of Commerce, bringing
the grand total up to 235.

WBAY—American Telephone and
Telegraph Company, New York, N. Y.
WBAV—The Erner & Hopkins Com-
pany, Columbus, O.

WGM—Georgia Railway and Power
Company, Atlanta, Ga. (Atlanta Con-
stitution).

WBAQ—Myron L. Harmon, Y. M. C. A.,
South Bend, Ind.

WGI—Iowa State College, Ames, Ia.
WBAW—Marquette College, Marquette, O.

WBAU—Republican Publishing Com-
pany, Hamilton, O.
KNI—T. W. Smith, Eureka, Cal.

WBAX—John H. Stenger Jr., Wilkes-
Barre, Pa.
WCX—Detroit Free Press, Detroit, Mich.

WCAB—Kaufmann & Beer Company,
Pittsburgh, Pa.

WCAB—Newburgh News Print &
Publishing Company, Newburgh, N. Y.

WBAB—Times-Dispatch Publishing
Company, Richmond, Va.

KIX—Tribune Publishing Company,
Oakland, Cal.

KOJ—University of Nevada, Reno,
Nevada.

KZV—Wenatchee Battery and Motor
Company, Wenatchee, Wash.

WBAP—The Star-Telegram, Fort
Worth, Tex.

KIX—Bakersfield Californian, Bakers-
field, Cal.

WCAG—Daily States Publishing
Company, New Orleans, La.

KNX—Electric Lighting Supply Com-
pany, Los Angeles, Cal.

WCAC—John Pink Jewelry Company,
Fort Smith, Ark.

WCAD—St. Lawrence University,
Canton, N. Y. (Only weather).

KQI—University of California, Berke-
ley, Cal.

W J Z (Newark)
360 Metres

Features for the day:
Agricultural reports at 12 M. and 6
P. M.
Arlington official time at 12:55 P. M.
to 1 P. M.; 10:55 P. M. to 11 P. M.
Baseball scores at 2, 4, 6, 7 and
8 P. M.
Music every hour from 11 A. M. to 6
P. M. for 15 minutes after the hour.

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ducts, experimental or quantity production.
Atkins Knight Co., 10 Warren St., N. Y.

Shipping news at 2:05 P. M.

Weather reports at 11 A. M., 1 P. M.,
5 P. M. and 11:01 P. M.

7 P. M.—"Man in the Moon" stories.
7:30 P. M.—"Do You Use Labor Sav-
ers?" by Miss Mildred Maddocks.

8 P. M.—Concert by Philharmonic So-
ciety of the Orange, N. Y. Bergmann
conductor; E. Berthold, concert master.
Programme: "La Reine de Saba,"

marche et cortège (Gounod); "Beauty
Eyes," cornet solo (Tosti); "U. S. Field
Artillery March," (Souza); "Tutu Over-
ture" (Mozart); "Melody of Peace"
(Carroll-Martin); "The Girl Who
Smiles" (Jean Bricquet); "Lights Out
March" (McCoy). Cornet solos by Harry
Stalter.

9 P. M.—Concert by the Dorian Quar-
tet; Hazel Drury, first soprano; Rivera
Codargreen, second soprano; Ruth
Pearcy, first alto; Luma Root, second
alto; accompanist, John Weinman,
baritone. Programme: "Carmena," Wil-
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"Barcarole," from "Tales of Hoffman"
(Offenbach), Miss Drury and Miss Root;
"Amour Viena Aider," from Sanson et
Della (Saint-Saens), Miss Pearcy;
"Pale Moon," Logan; "Tommy Lad"
(Margateon), Mr. Weinman; "Jewel
Song" from Faust (Gounod), Miss
Drury; "All Thru the Night," old
Welsh air; Charles is My Darling,"
(Scotch), Miss Root.

9 P. M.—Concert by the Dorian Quar-
tet; Hazel Drury, first soprano; Rivera
Codargreen, second soprano; Ruth
Pearcy, first alto; Luma Root, second
alto; accompanist, John Weinman,
baritone. Programme: "Carmena," Wil-
son; "Mallorca," Von Tilzer; "April
Showers," Silvers; "Song My Mother
Used to Sing"; "The Sextette From
Lucia di Lammermoor," Donizetti, by
the quartet; "One Fleeting Hour," Lee;
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